

Reply to Office Action dated January 17, 2007

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An automatic gain control method comprising:
extracting a maximum absolute value of a reception signal received by a receiver of a radio frequency communication system;
determining a gain control value of the reception signal on the basis of the maximum absolute value and a predetermined threshold; and
controlling gain of the reception signal according to the determined gain control value,
wherein the ~~abstracting~~extracting the maximum absolute value comprises storing absolute values of the reception signal and extracting the maximum absolute value from among the stored absolute values, and
wherein the gain control value for amplifying the reception signal to make the extracted maximum absolute value consistent with the predetermined threshold, and the predetermined threshold is a maximum absolute value of a predetermined reception signal.

2. (Canceled)

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3. (Previously Presented) The method of claim 1, wherein the controlling the gain comprises:

amplifying the reception signal by multiplying the reception signal by the determined gain control value; and

outputting the amplified reception signal.

4. (Canceled)

5. (Currently Amended) An automatic gain control apparatus of a radio frequency communication system comprises:

a means for extracting a maximum absolute value of a reception signal received by a receiver of a radio frequency communication system;

a means for determining a gain control value of the reception signal on the basis of the maximum absolute value and a predetermined threshold;

a means for controlling gain of the reception signal according to the determined gain control value; and

a means for storing absolute values of the reception signal,

wherein the means for extracting the maximum absolute value extracts the maximum absolute value from among the stored absolute values, and

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wherein the means for determining the gain control value of the reception signal determines the gain control value for amplifying the reception signal to make the extracted maximum absolute value consistent with the predetermined threshold, wherein the predetermined threshold is a maximum absolute value of a predetermined reception signal.

6-7. (Canceled)

8. (Original) The apparatus of claim 5, wherein the means for controlling the gain amplifies the reception signal by multiplying the reception signal by the determined gain control value, and outputs the amplified reception signal.

9. (Canceled)

10. (Currently Amended) An automatic gain control apparatus of a radio frequency communication system comprising:

an amplitude controller for calculating absolute values of a reception signal received by a receiver of a radio frequency communication system;
a buffer for storing the absolute values of the reception signal, ~~which that~~ have been calculated by the amplitude controller;

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a controller for extracting a maximum absolute value among the absolute values stored at the buffer, and determining a gain control value of the reception signal by comparing the extracted maximum absolute value with a predetermined threshold; and

a multiplier for amplifying the reception signal by multiplying the reception signal by the determined gain control value, and outputting the amplified reception signal, wherein the gain control value amplifies the reception signal making the extracted maximum absolute value consistent with the predetermined threshold, the predetermined threshold being a maximum value of a predetermined reception signal.

11. (Original) The apparatus of claim 10, wherein the buffer is a first-in first-out storage.

12. (Canceled)